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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/866,874	05/30/2001	Young-Won Lim	P 281290 POOHA-006/US	4508
909	7590 09/28/2004		EXAMINER	
	WINTHROP, LLP		NALVEN, A	NDREW L
P.O. BOX 105 MCLEAN, V			ART UNIT PAPER NUMBER 2134	
112 C L L L L L L L L L L L L L L L L L L	1			

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	A				
	09/866,874	LIM, YOUNG-WON	_A				
Office Action Summary	Examiner	Art Unit					
	Andrew L Nalven	2134					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
 A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 		timely filed days will be considered timely. om the mailing date of this community NED (35 U.S.C. § 133).	nication.				
Status							
1) Responsive to communication(s) filed on 301	Responsive to communication(s) filed on 30 May 2001.						
,—	This action is FINAL . 2b)⊠ This action is non-final.						
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) 1 is/are objected to. 8) Claim(s) are subject to restriction and/ 	awn from consideration.						
Application Papers							
9) The specification is objected to by the Examination 10) The drawing(s) filed on 30 May 2001 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examination 11.	a) \boxtimes accepted or b) \square objected to drawing(s) be held in abeyance. So the ction is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date	m)	al Patent Application (PTO-152	2)				

Application/Control Number: 09/866,874

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DETAILED ACTION

1. Claims 1-7 are pending.

Claim Objections

2. Claim 1 is objected to because of the following informalities: Line 16 reads, "a controller *for* control the multiplexer." For the remainder of this office action Examiner has interpreted the limitation to read "a controller to control the multiplexer." Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 4 (and thus their dependent claims) appear to be in the form of a Jepson claim (improvement claim) and thus imply that the subject matter of the preamble is the prior art of another. However, by using the language "the encryption device comprising," the purpose of the subject matter of the preamble becomes unclear. Examiner suggests a correction to "wherein the improvement comprises" as suggested by 37 CFR 1.75(e).

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Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-7 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of copending Application No. 09/874377. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the present application are directed to a specific case of the claims of Application No. 09/874377. The claims of the instant application are directed towards an encryption apparatus with a multiplexer receiving two 48-bit inputs, a controller to control the multiplexer, a single S-Box permutation unit, and a de-multiplexer to distribute 32-bit data from the S-Boxes to one of two outputs. The copending application claims an encryption apparatus with a multiplexer receiving three 48-bit inputs, a controller to control the multiplexer, a single S-Box permutation unit, and a de-multiplexer to distribute 32-bit data from the S-Boxes to one of three outputs. At the time the invention was made, it would have been

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obvious to a person of ordinary skill in the art to provide support for two inputs to a single S-Box permutation unit because it offers the advantage of increasing circuit space efficiency by providing the functionality of the S-Box permutation unit to a greater number of inputs while not further increasing the space required by the S-Box unit.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 703 305 8407. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 703 308 4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Art Unit: 2134

Andrew Nalven